

IN THE CLAIMS

Please amend the claims as follows:

1-54. (Cancelled)

55. (Currently Amended) A method of assembling a capacitor comprising:

providing a conductor connected to at least one ~~aluminum~~ metal layer of a plurality of flat ~~aluminum~~ metal layers; and

positioning the conductor between a first portion and a second portion of a capacitor case;
welding the first portion to the second portion to form forming a mechanical and electrical connection between the conductor and the first portion and the second portion of the case.

56. (Previously Presented) The method of claim 55 further comprising trimming off a portion of the conductor extending outside of the case.

57. (Currently Amended) The method of claim 55 wherein forming a mechanical and electrical connection further comprises welding the conductor, the first portion, and the second portion to each other providing a conductor includes providing an aluminum conductor.

58. (Previously Presented) The method of claim 57 wherein welding the conductor, the first portion, and the second portion comprises using an uninterrupted welding process.

59-63. (Cancelled)

64. (Previously Presented) The method of claim 55, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

65. (Previously Presented) The method of claim 55, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

78. (New) A method comprising:

forming a flat capacitor stack including a conductor extending from the stack;

placing the flat capacitor stack within a capacitor case;

placing a lid on the capacitor case with the conductor between an edge of the case and the lid; and

welding the lid to the case such that the conductor is electrically connected to the case during the welding.

79. (New) The method of claim 78, wherein forming a flat capacitor stack includes stacking alternate layers of a plurality of cathode layers and a plurality of anode layers.

80. (New) The method of claim 79, wherein the anode layers include etched aluminum layers.

81. (New) The method of claim 78 wherein placing the flat capacitor stack includes placing the flat capacitor stack within an aluminum case.

82. (New) The method of claim 78, wherein welding includes using an uninterrupted welding process.

83. (New) The method of claim 78, wherein the conductor is connected to at least one cathode layer of the capacitor stack.

84. (New) The method of claim 78, wherein the conductor is connected to at least one anode layer of the capacitor stack.